

Title (en)

Cobalt(II) chelates as chain transfer agents in free radical polymerizations.

Title (de)

Kobalt(II)-Chelate als Kettenübertragungsmittel in freien radikalischen Polymerisationen.

Title (fr)

Chélates de cobalt(II) comme agents de transfert de chaînes dans la polymérisation par radicaux libres.

Publication

EP 0196783 A1 19861008 (EN)

Application

EP 86301443 A 19860228

Priority

- US 70736785 A 19850301
- US 82132286 A 19860127

Abstract (en)

Free radical polymerization processes employing cobalt (II) chelates of vicinal iminohydroxyimino compounds, diazadihydroxyiminodialkyldodecadienes and -undecadienes, tetraazatetraalkylcyclotetradecatetraenes and -dodecatetraenes, N,N'-bis-(sali^qylidene) ethylenediamines and dialkyldiazadioxodialkyldodecadienes and -tridecadienes as catalytic chain transfer agents for controlling the molecular weight of the homopolymers and copolymers produced.

IPC 1-7

C08F 2/38

IPC 8 full level

C08F 2/38 (2006.01); **C08F 2/40** (2006.01); **C08F 12/00** (2006.01); **C08F 12/08** (2006.01); **C08F 20/00** (2006.01); **C08F 20/14** (2006.01); **C08F 212/00** (2006.01); **C08F 220/10** (2006.01)

CPC (source: EP US)

C08F 2/38 (2013.01 - EP US)

Citation (search report)

- [AD] US 4526945 A 19850702 - CARLSON GARY M [US], et al
- [A] US 4169092 A 19790925 - BAYER JOHN W
- [AD] JOURNAL OF POLYMER SCIENCE: POLYMER CHEMISTRY EDITION, vol. 19, April, pages 879-889 1981, John Wiley & Sons, Inc., New York, US; N.S. ENIKOLOPYAN et al.: " Catalyzed chain transfer to monomer in free radical polymerization"

Cited by

US5028677A; EP0849284A3; EP0498914A1; US5602220A; US5962609A; US5804632A; US6017992A; US5684101A; US5324879A; GB2444851A; WO2005105855A1; US10597477B2; WO8703605A1; WO9601852A1; WO2017157934A1; US10913811B2; US9844759B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0196783 A1 19861008; EP 0196783 B1 19891123; CA 1246795 A 19881213; DE 3667062 D1 19891228; JP H0735411 B2 19950419; JP S61228006 A 19861011; US 4680352 A 19870714

DOCDB simple family (application)

EP 86301443 A 19860228; CA 502883 A 19860227; DE 3667062 T 19860228; JP 4049386 A 19860227; US 82132286 A 19860127